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SOURCE

Documentary as indicated (Information specifically requested.)

RECENTLY PUBLISHED RESEARCH OF THE LENDIGRAD INSTITUTE OF VACCINES AND SERUMS, USSR

"Immunization with Antigens of Clostridius Perfringens in Lanolin," D. 1. Zakkarina, Leningrad Inst Vaccine and Serum

"Zhurnal Mikroboil, Epidemiel i Immunotiol" No 9, 1944, pp 21-3
"American haview of Soviet Medicine" Vol 4, 1947, pp 403-5

Immunization with antigens of Cl. perfringens in lanolin gave good results in experiments with rabbits. The dry toxin of C. perfringens was tried in one serios of experiments; toxin was mixed with living or killed bacteria, or with natural anatoxin in another series. Immunization with dry toxin in lanolin with added native enatoxin produced a rise in the antibody content of serum. Dry anatoxin as antigen in itself is half as strong as dry toxin. Native anatoxin alone produced 1/10 the antibodies of its combination with dry toxin and living micro-organisms. Addition of living bacteria to dry toxin doubled the titer. There was no appreciable difference between the titers of serums immunized with living or dead bacteria. Best method of immunization consisted of the use of dry toxin plus living microorganisms in lanolin with oil plus native anatoxin. Single revaccination increased the amount of antibodies 2-5 times and in individual cases up to 20 times.

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